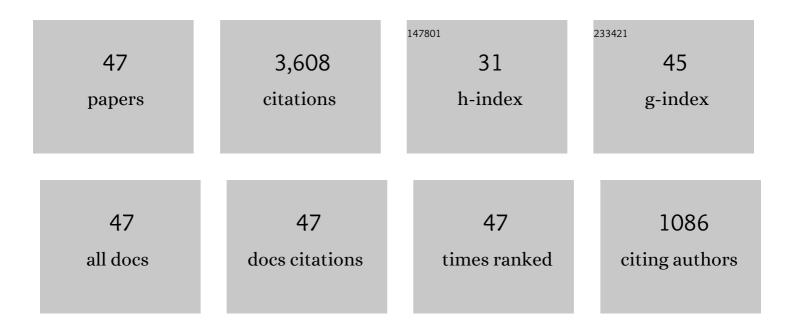
Stephen A Slutz

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An overview of magneto-inertial fusion on the Z machine at Sandia National Laboratories. Nuclear Fusion, 2022, 62, 042015.	3.5	35
2	Dense hydrogen layers for high performance MagLIF. Physics of Plasmas, 2022, 29, 022701.	1.9	2
3	Estimation of stagnation performance metrics in magnetized liner inertial fusion experiments using Bayesian data assimilation. Physics of Plasmas, 2022, 29, .	1.9	11
4	Fusion gain from cylindrical liner-driven implosions of field reversed configurations. Physics of Plasmas, 2021, 28, .	1.9	4
5	Deep-learning-enabled Bayesian inference of fuel magnetization in magnetized liner inertial fusion. Physics of Plasmas, 2021, 28, .	1.9	16
6	A Platform to Study High-Field FRC Formation on the Maize Linear Transformer Driver *. , 2021, , .		0
7	Increased preheat energy to MagLIF targets with cryogenic cooling. , 2021, , .		Ο
8	Lasergate: A windowless gas target for enhanced laser preheat in magnetized liner inertial fusion. Physics of Plasmas, 2021, 28, 112703.	1.9	1
9	Performance Scaling in Magnetized Liner Inertial Fusion Experiments. Physical Review Letters, 2020, 125, 155002.	7.8	65
10	Review of pulsed power-driven high energy density physics research on Z at Sandia. Physics of Plasmas, 2020, 27, .	1.9	140
11	A pulsed-power implementation of "Laser Gate―for increasing laser energy coupling and fusion yield in magnetized liner inertial fusion (MagLIF). Review of Scientific Instruments, 2020, 91, 063507.	1.3	6
12	Implosion of auto-magnetizing helical liners on the Z facility. Physics of Plasmas, 2019, 26, 052705.	1.9	9
13	Constraining preheat energy deposition in MagLIF experiments with multi-frame shadowgraphy. Physics of Plasmas, 2019, 26, .	1.9	27
14	Assessing Stagnation Conditions and Identifying Trends in Magnetized Liner Inertial Fusion. IEEE Transactions on Plasma Science, 2019, 47, 2081-2101.	1.3	36
15	Origins and effects of mix on magnetized liner inertial fusion target performance. Physics of Plasmas, 2019, 26, .	1.9	37
16	Minimizing scatter-losses during pre-heat for magneto-inertial fusion targets. Physics of Plasmas, 2018, 25, .	1.9	30
17	Diagnosing and mitigating laser preheat induced mix in MagLIF. Physics of Plasmas, 2018, 25, .	1.9	33
18	Enhancing performance of magnetized liner inertial fusion at the Z facility. Physics of Plasmas, 2018, 25, .	1.9	34

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#	Article	IF	CITATIONS
19	Megagauss-level magnetic field production in cm-scale auto-magnetizing helical liners pulsed to 500 kA in 125 ns. Physics of Plasmas, 2018, 25, 052703.	1.9	12
20	Scaling of magnetized inertial fusion with drive current rise-time. Physics of Plasmas, 2018, 25, 082707.	1.9	15
21	Auto-magnetizing liners for magnetized inertial fusion. Physics of Plasmas, 2017, 24, .	1.9	21
22	Scaling magnetized liner inertial fusion on Z and future pulsed-power accelerators. Physics of Plasmas, 2016, 23, .	1.9	65
23	Exploring magnetized liner inertial fusion with a semi-analytic model. Physics of Plasmas, 2016, 23, .	1.9	22
24	Experimental Demonstration of the Stabilizing Effect of Dielectric Coatings on Magnetically Accelerated Imploding Metallic Liners. Physical Review Letters, 2016, 116, 065001.	7.8	78
25		1.9	36
26	Physics of Plasmas, 2015, 22, 056306.	1.9	75
27	Effects of magnetization on fusion product trapping and secondary neutron spectra. Physics of Plasmas, 2015, 22, .	1.9	37
28	A semi-analytic model of magnetized liner inertial fusion. Physics of Plasmas, 2015, 22, 052708.	1.9	39
29	Modified helix-like instability structure on imploding z-pinch liners that are pre-imposed with a uniform axial magnetic field. Physics of Plasmas, 2014, 21, .	1.9	69
30	Pulsed-coil magnet systems for applying uniform 10–30 T fields to centimeter-scale targets on Sandia's Z facility. Review of Scientific Instruments, 2014, 85, 124701.	1.3	47
31	Effect of axial magnetic flux compression on the magnetic Rayleigh-Taylor instability (theory). AIP Conference Proceedings, 2014, , .	0.4	17
32	Design of magnetized liner inertial fusion experiments using the Z facility. Physics of Plasmas, 2014, 21,	1.9	123
33	Experimental Demonstration of Fusion-Relevant Conditions in Magnetized Liner Inertial Fusion. Physical Review Letters, 2014, 113, 155003.	7.8	332
34	Understanding Fuel Magnetization and Mix Using Secondary Nuclear Reactions in Magneto-Inertial Fusion. Physical Review Letters, 2014, 113, 155004.	7.8	105
35	Observations of Modified Three-Dimensional Instability Structure for Imploding <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">z-Pinch Liners that are Premagnetized with an Axial Field. Physical Review Letters. 2013. 111. 235005.</mml:math 	7.8	101
36	Beryllium liner implosion experiments on the Z accelerator in preparation for magnetized liner inertial fusion. Physics of Plasmas, 2013, 20, .	1.9	95

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#	Article	IF	CITATIONS
37	Simulations of electrothermal instability growth in solid aluminum rods. Physics of Plasmas, 2013, 20, .	1.9	58
38	Electrothermal instability growth in magnetically driven pulsed power liners. Physics of Plasmas, 2012, 19, .	1.9	102
39	Magnetically Driven Implosions for Inertial Confinement Fusion at Sandia National Laboratories. IEEE Transactions on Plasma Science, 2012, 40, 3222-3245.	1.3	154
40	Penetrating Radiography of Imploding and Stagnating Beryllium Liners on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi>Accelerator. Physical Review Letters, 2012, 109, 135004.</mml:math 	7.8	102
41	High-Gain Magnetized Inertial Fusion. Physical Review Letters, 2012, 108, 025003.	7.8	244
42	Measurements of magneto-Rayleigh–Taylor instability growth during the implosion of initially solid metal liners. Physics of Plasmas, 2011, 18, .	1.9	104
43	Measurements of Magneto-Rayleigh-Taylor Instability Growth during the Implosion of Initially Solid Al Tubes Driven by the 20-MA, 100-ns Z Facility. Physical Review Letters, 2010, 105, 185001.	7.8	132
44	Pulsed-power-driven cylindrical liner implosions of laser preheated fuel magnetized with an axial field. Physics of Plasmas, 2010, 17, .	1.9	486
45	Target design for high fusion yield with the double Z-pinch-driven hohlraum. Physics of Plasmas, 2007, 14, 056302.	1.9	60
46	Pulsed-power-driven high energy density physics and inertial confinement fusion research. Physics of Plasmas, 2005, 12, 055503.	1.9	280
47	Production of Thermonuclear Neutrons from Deuterium-Filled Capsule Implosions Driven byZ-Pinch Dynamic Hohlraums, Physical Review Letters, 2004, 93	7.8	111